

# LOCAL4FLOOD

## PROJECT PRESENTATION

### INTERREG FOR A GREENER EUROPE

#### ADAPTATION TO CLIMATE CHANGE AND DISASTER RISK MANAGEMENT

**Meritxell Abril**

[meritxell.abril@uvic.cat](mailto:meritxell.abril@uvic.cat)



**LocAll4Flood**

**Interreg**  
Euro-MED



Co-funded by  
the European Union



**FLOODS** are the most common type of natural disaster recorded in Europe, and among the most costly in terms of human and economic losses.

**CLIMATE CHANGE** is increasing the frequency and intensity of extreme flood events, such as flash floods, particularly around the **MEDITERRANEAN**.

**FLASH FLOODS** are characterized by their rapid onset and decline, typically resulting from intense rainfall concentrated over a relatively small catchment area.

**EU FLOODS DIRECTIVE** (Directive 2007/60/EC) establishes the European framework for the assessment and management of flood risks.

Extending **FLOOD RISK MANAGEMENT** to **FLASH FLOODS** faces challenges



## Extending **FLOOD RISK MANAGEMENT** to **FLASH FLOODS** faces challenges

- **Prediction and monitoring:** Flash floods are extremely difficult to monitor and predict due to their rapid onset and localized nature.
- **Response management:** The extremely sudden onset leaves little time to coordinate flood response.

The general objective of the **LOCALL4FLOOD** is to improve flash flood risk management in Mediterranean regions



## FRANCE

### Inondations dans l'Aude : au moins 11 morts, l'état de catastrophe naturelle décrété



Publié le 15/10/2018 à 08:47 Modifié le 16/10/2018 à 12:58



Nouvelles / Monde / Italie

### Meteo Cronaca Diretta: MALTA, furioso Maltempo manda sott'acqua Molti Paesi dell'Arcipelago. Il VIDEO

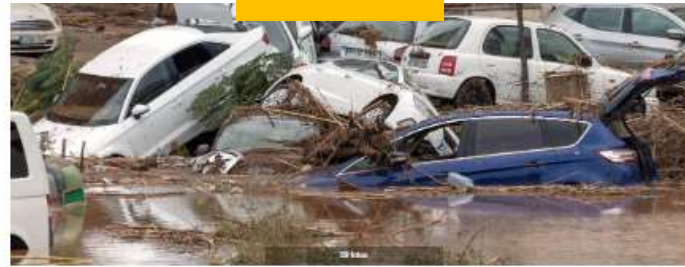


Articolo del 30/11/2021  
ore 22:30  
di Stefano Rossi Meteorologo

## MALTA



## SPAIN



### Las inundaciones de Sant Llorenç en Mallorca, en



El tram de l'AP-7 entre Ulldecona i Freginals que s'ha tallat durant unes hores.  
/ Tránsit

Dozens of homes were damaged after a torrential downpour in Sliven Province, Bulgaria, 26 June 2021.

## BULGARIA



## ITALY



### IL NUBIFRAGIO

Chi sono le prime tre vittime identificate  
di Giannmareo Lotti

### LA SITUAZIONE

Stop ai treni da Prato verso Pistoia e Bologna. Regolare l'Alta velocità. Chiusa l'A11. Bus, autisti bloccati a casa e linee interrotte

di Azzurra Giorgi

### LA GIORNATA LIVE

**Diretta Maltempo: in Toscana cinque morti. Ritrovato uno dei due dispersi. Mille interventi, 40mila senza luce. Campobasso, crolla una palestra**

• Italia in balia di Ciaran: nubifragi e vento forte fino al weekend

### EUROPA AL DÍA

### Inundaciones en Grecia dejan al menos siete muertos



## GREECE



**Flash floods** are one of the most devastating natural disasters in the Mediterranean areas.



The general objective of the **LOCALL4FLOOD** project is to improve flash flood risk management in Mediterranean regions



## Integrated Multi-stakeholder Governance Model (IMGGM)

### PREVENTION

Development and implementation of **early-warning systems** to improve flash floods prediction

### ADAPTATION

Design and implementation of **educational materials and activities** to raise awareness and improve the response capacity of citizens and authorities to these events.

### MITIGATION

Promotion of the **implementation of Nature Base Solutions (NBS)** to mitigate flash-flood risks.





## Partnership



**LP**

**UVIC-UCC**

Balmes University Foundation - BETA Technological Center (Spain)



**PP2**

**EUROREGIO**

Euroregion Pyrenees Mediterranean (France)



**PP3**

**UIB-GLOWATER**

University of Balearic Islands (Spain)



**PP4**

**EWA**

Energy and Water Agency (Malta)



**PP5**

**BDCA**

Black Sea – Danube Association for Research and Development (Bulgaria)



**PP6**

**CNR-IRSA**

National Research Council - Water Research Institute (Italy)



**PP7**

**HYDS**

Hydrometeorological Innovative Solutions (Spain)



**PP8**

**AUTH**

Aristotle University of Thessaloniki – Department of Civil Engineering  
Division of Hydraulics and Environmental Engineering (Greece)

## 9 PILOT SITES

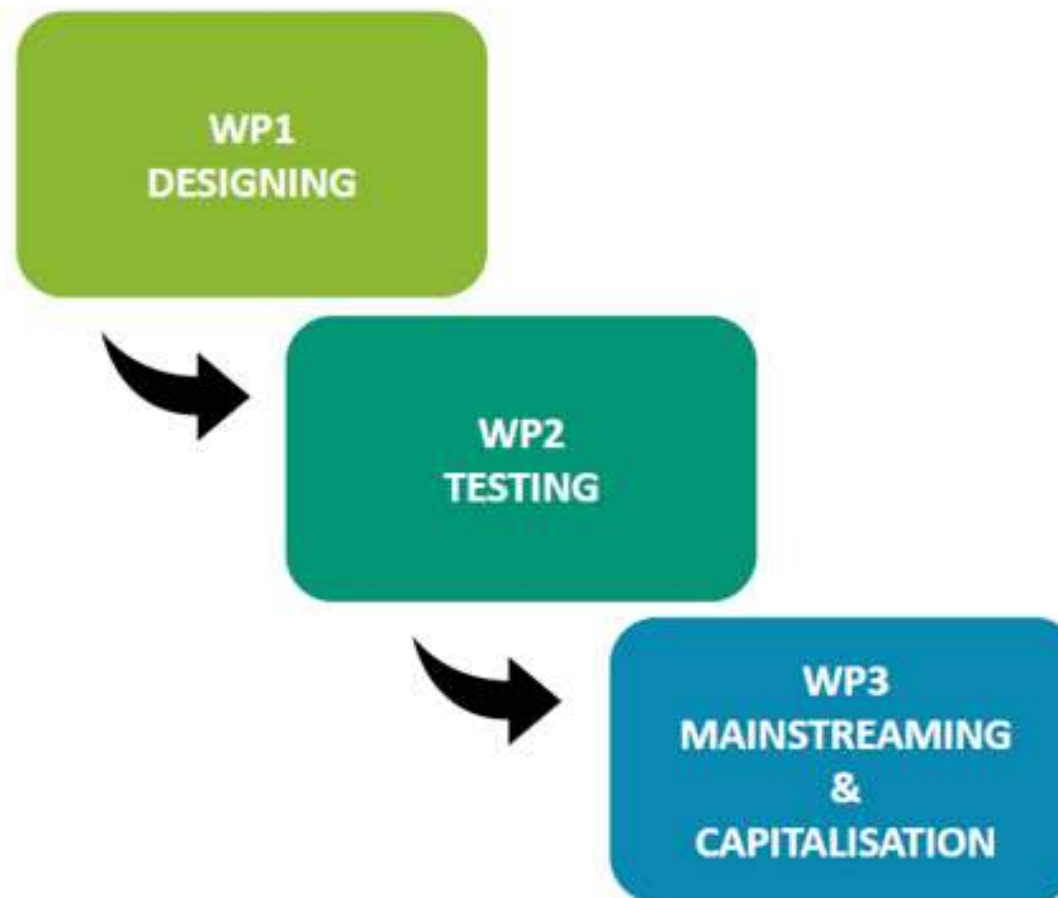
LocAll4Flood



<https://locall4flood.interreg-euro-med.eu/what-we-do/>

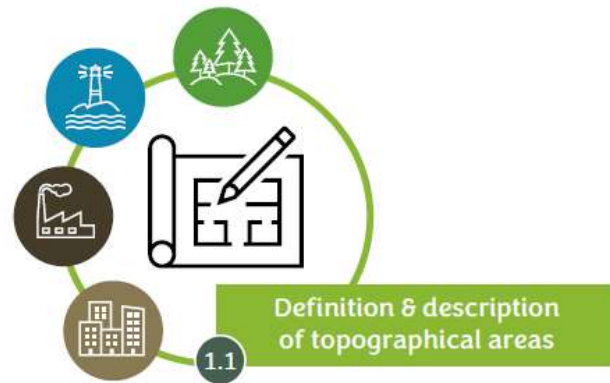


**IMPLEMENTATION PHASE**  
**30 MONTHS**  
**(01/01/24 – 30/06/26)**



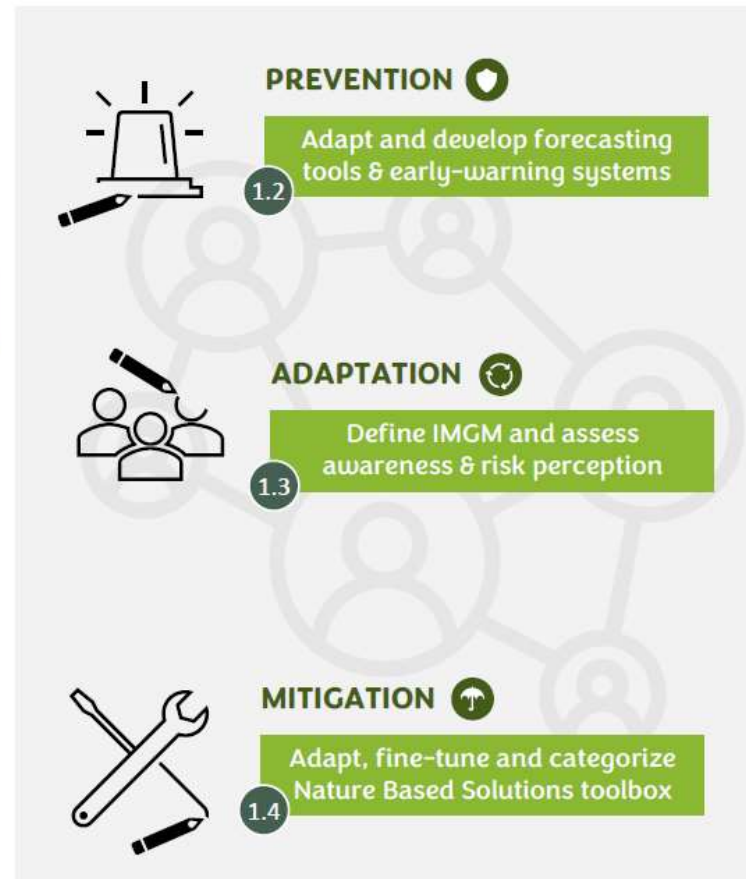


# WP1 – DESIGNING THE INTEGRATED MULTI-STAKEHOLDERS GOVERNANCE MODEL



## Preliminary analysis

- Urban areas
- Coastal areas
- Natural/rural areas
- Industrial areas

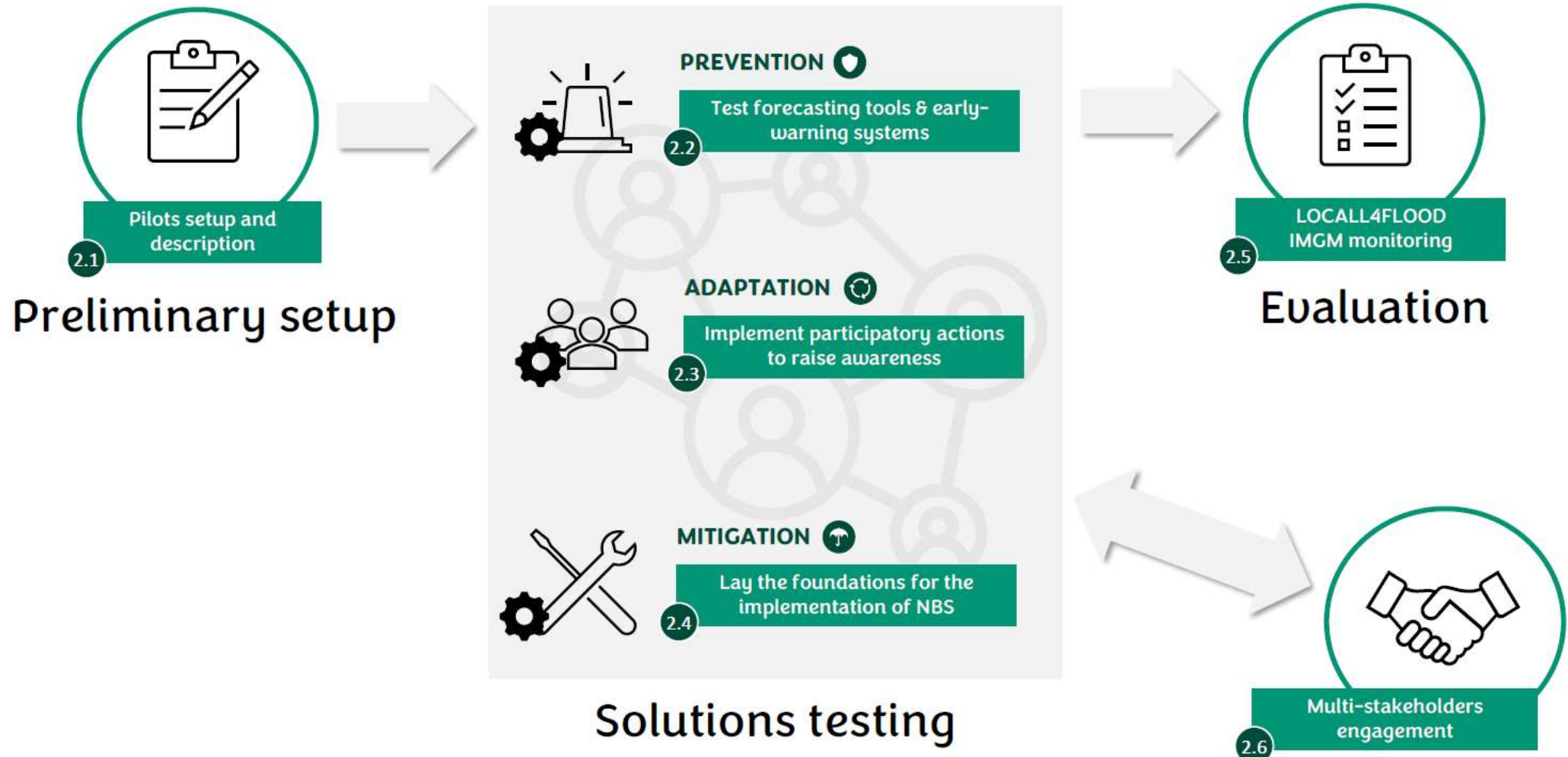


## Solutions design

## Training & validation



# WP2 – TESTING THE INTEGRATED MULTI-STAKEHOLDERS GOVERNANCE MODEL



# WP3 – MAINSTREAMING & CAPITALISING THE MULTISTAKEHOLDERS GOVERNANCE CANVAS

## Multiplying and capitalizing activities



Synergies and cross-fertilization

3.4



Transfer and mainstream

3.5



Advocacy and Policy conferences

3.6



Project coordination and management

3.1



Euro-MED Academy & Community activities

3.3



Carbon footprint assessment and offsetting

3.7



Communication & dissemination

3.2

Ensuring visibility





## What have we achieved so far?

- ✓ Report on the **early warning system** to be implemented in each pilot sites.
- ✓ **Flash flood awareness and risk perception evaluation** at each pilot site as a basis for designing educational materials and activities.
- ✓ **Catalogue of Nature-Based Solutions (NBS)** for flood risk management.
- ✓ Detailed **characterization of each pilot site** based on climate, topography and flood risk management.
- ✓ Design of a training program and workshops to be implemented across all pilot sites, promoting integrated and multistakeholder management of flash flood risks.
- ✓ Interviews with all key stakeholders on each pilot and implementation of the **training program & workshops**.





## TRAINING PROGRAMME & WORKSHOPS

MARCH 2025	JUNE 2025	NOVEMBER 2025
<p><b>Flood Risk Management: Tailored Approaches and Stakeholder Engagement for Flash Floods</b></p> <ul style="list-style-type: none"> <li>• Training Presentations: <ul style="list-style-type: none"> <li>I. Principles of Flood Risk Management and the EU Floods Directive.</li> <li>II. Early Warning Systems: Enhancing Preparedness for Flash Floods.</li> </ul> </li> <li>• Practical exercise and analysis on the <b>local FRMP</b>.</li> <li>• Co-implementation of the <b>local Early Warning System</b>.</li> </ul>	<p><b>Adapting to Flash Floods: Enhancing People Awareness and Preparedness</b></p> <ul style="list-style-type: none"> <li>• Training Presentations: <ul style="list-style-type: none"> <li>I. Multi-level stakeholder engagement in flood risk management.</li> <li>II. Community awareness as an adaptation tool to flash floods.</li> </ul> </li> <li>• Current situation of <b>citizens' awareness and risk perception</b> on the pilot site.</li> <li>• Co-design and co-implementation of the <b>education materials</b> and activities to increase this awareness.</li> <li>• Co-analysis of the <b>current flood response chain</b>.</li> </ul>	<p><b>Mitigating Flash Floods using Nature-Based Solutions</b></p> <ul style="list-style-type: none"> <li>• Training Presentations: <ul style="list-style-type: none"> <li>I. Mitigate Flash Flooding: shifting from grey to green approaches.</li> <li>II. Nature-Based solutions for mitigating flash flood risks.</li> </ul> </li> <li>• Presentation of a <b>catalogue of NBS</b> for flash flood risk mitigation.</li> <li>• <b>Co-design and co-implementation of NBS</b> at pilot scale.</li> </ul>

## TRAINING PROGRAMME & WORKSHOPS

LocAll4Flood



MARCH 2025 – 1st Training session in all pilots

MALLORCA (Spain)



MALTA



CATALONIA (Spain)



<https://locall4flood.interreg-euro-med.eu/news/>

## TRAINING PROGRAMME & WORKSHOPS

LocAll4Flood



MARCH 2025 – 1st Training session in all pilots

### CENTRAL MACEDONIA (Greece)



### BARI (Italy)



### BULGARIA



<https://local4flood.interreg-euro-med.eu/news/>





## Main outputs expected

- ✓ A **better understanding of the challenges** associated with flash flood risk management in the Mediterranean region.
- ✓ **Greater connection and coordination** among the stakeholders involved in flood risk management at the local level.
- ✓ Different tools to improve flash flood risk management:
  - ✓ A **EWS specifically developed for the pilot** site as a prevention tool and guidelines to implement it at local scale.
  - ✓ Different **education materials ready to be used** on the pilot site to increase citizen's awareness regarding flash flood risks.
  - ✓ A **detailed analysis of the most suitable NBS** to be implemented on each pilot site to mitigate flash flood.
- ✓ **An action plan** to improve prevention, adaptation, and mitigation of the risks associated with flash floods in the area.
- ✓ **Synthesis of lessons learned** to inform policy and guide flash flood risk management in regions facing the same risk.
- ✓ **A final event** to summarize the project's achievements (June 2026) - <https://www.linkedin.com/showcase/local4flood/>



THANKS FOR YOUR ATTENTION!

---

LocAll4Flood

*FOR MORE INFORMATION:*

[HTTPS://LOCAL4FLOOD.INTERREG-EURO-MED.EU/](https://locall4flood.interreg-euro-med.eu/)



[HTTPS://WWW.LINKEDIN.COM/SHOWCASE/LOCAL4FLOOD/ABOUT/](https://www.linkedin.com/showcase/locall4flood/about/)



LocAll4Flood

Interreg  
Euro-MED



Co-funded by  
the European Union